

WPX Energy Rocky Mountain LLC-EBUS

RGU 333-26-198

**Cyclone 29**

## **Post Job Summary**

# **Cement Production Casing**

Date Prepared: 01/09/2015  
Job Date: 01/04/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

### The Road to Excellence Starts with Safety

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 3124461		<b>Quote #:</b> 0021978804		<b>Sales Order #:</b> 0901980714					
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Rick Mortimer							
<b>Well Name:</b> FEDERAL		<b>Well #:</b> RGU 333-26-198		<b>API/UWI #:</b> 05-103-11988-00							
<b>Field:</b> SULPHUR CREEK		<b>City (SAP):</b> MEEKER		<b>County/Parish:</b> RIO BLANCO		<b>State:</b> COLORADO					
<b>Legal Description:</b> 26-1S-98W-2455FNL-914FEL											
<b>Contractor:</b> CYCLONE				<b>Rig/Platform Name/Num:</b> CYCLONE 29							
<b>Job BOM:</b> 7523											
<b>Well Type:</b> DIRECTIONAL GAS											
<b>Sales Person:</b> HALAMERICA\HB50180				<b>Srvc Supervisor:</b> Javier Castillo							
<b>Job</b>											
<b>Formation Name</b>											
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>	12639ft						
<b>Form Type</b>					<b>BHST</b>						
<b>Job depth MD</b>		12639ft			<b>Job Depth TVD</b>						
<b>Water Depth</b>					<b>Wk Ht Above Floor</b> 3ft						
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>							
<b>Well Data</b>											
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>	
Casing	NEW	9.625	8.921	36			0	4065		0	
Casing	NEW	4.5	4	11.6			0	12639		0	
Open Hole Section			8.75				3934	8632		0	
Open Hole Section			7.875				9000	12639		0	
<b>Tools and Accessories</b>											
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>		
						Top Plug	4.5	1	HES		
Float Shoe	4.5	1	WTF	12639							
Float Collar	4.5	1	WTF	12610.18							
						Plug Container	4.5	1	HES		
						Centralizers	4.5				
<b>Miscellaneous Materials</b>											
<b>Gelling Agt</b>		<b>Conc</b>		<b>Surfactant</b>		<b>Conc</b>		<b>Acid Type</b>		<b>Qty</b>	
<b>Treatment Fld</b>		<b>Conc</b>		<b>Inhibitor</b>		<b>Conc</b>		<b>Sand Type</b>		<b>Size</b>	
										<b>Conc</b>	
										<b>Qty</b>	
<b>Fluid Data</b>											
<b>Stage/Plug #: 1</b>											
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
1	Fresh Water	Fresh Water			100	bbl	8.3			6	

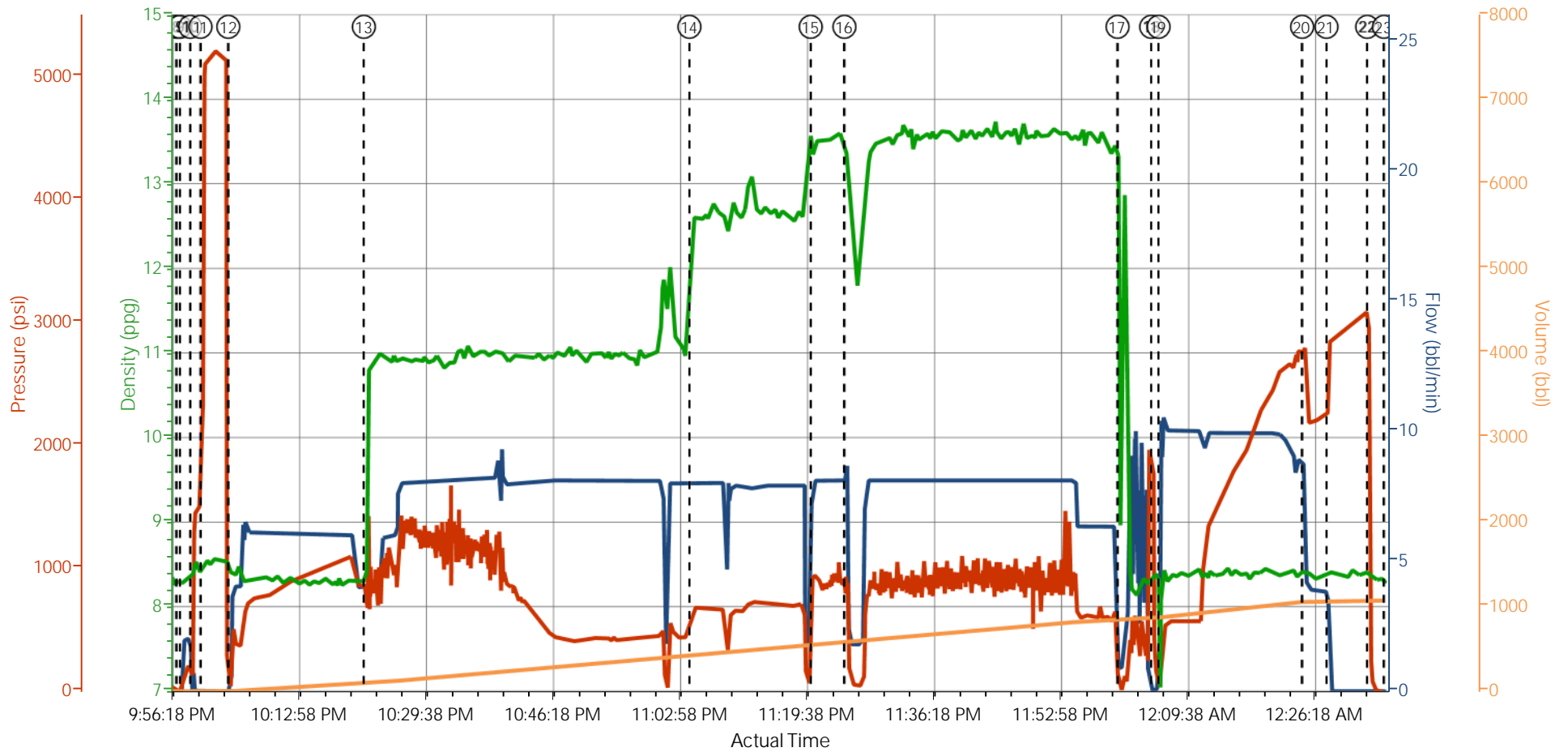
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	ExtendaCem GJ1	EXTENDACEM (TM) SYSTEM	620	sack	11	2.75		8	16.08
16.21 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	EconoCem GJ1	ECONOCCEM (TM) SYSTEM	365	sack	12.7	1.91		8	10.07
10.25 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	ThermaCem GJ1	THERMACEM (TM) SYSTEM	965	sack	13.5	1.75		8	8.23
8.32 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	Displacement	Displacement	196	bbl	8.34			10	
Cement Left In Pipe		Amount	28.82 ft		Reason		Shoe Joint		
Comment									

## 1.1 Job Event Log

	Graph Label	Date	Time	Downhole Density	Combined Pump Rate	Pump Pressure	Combined Pump Total	Comment
	CALL OUT	1/4/2015	10:00:00					ON LOCATION AT 17:00 HRS
	DEPART YARD SAFETY MEETING	1/4/2015	12:20:00					
	CREW LEAVE THE YARD	1/4/2015	12:30:00					
	ARRIVE ON LOCATION	1/4/2015	16:00:00					RIG WAS STILL RUNNING CASING. LANDED CASING AT 18:40 HRS
	STAGE TRUCKS	1/4/2015	16:15:00					
	RIG UP SAFETY MEETING	1/4/2015	16:25:00					
	RIG UP	1/4/2015	16:30:00					1-ELITE, 2-660s, 2-SILOS, 2" PUMPING IRON, BALE BASKET, PLUG CONTAINER AND QUICK CONNECT
	START JOB	1/4/2015	21:57:20					DEPTH-12639", OH-8.75" 4065" TO 8632", 8.5" 8632' TO 10719', 7.875" 10719' TO 12639', SJ-28.82', FC-12610.18, CSG-4.5", 11.6#, P-110, MUD-9.7 PPG, FV-74, PV-14, YP-47, Ph-8.6
	FILL LINES	1/4/2015	21:57:48	8.33 PPG	2 BPM	219 PSI	2 BBLS	FRESH WATER
	STALL OUT	1/4/2015	21:59:09					TESTED AT 1500 PSI
	TEST LINES	1/4/2015	22:00:30					TESTED AT 5200 PSI
	WATER SPACER	1/4/2015	22:04:09	8.33 PPG	6 BPM	869 PSI	100 BBLS	FRESH WATER. LAST 50 BBLS PSI DROPPED TO 400 PSI
	SCAVENGER CEMENT	1/4/2015	22:21:56	11.0 PPG	8 BPM	870 PSI	304 BBLS	620 SKS, 11.0 PPG, 2.75 FT3/SK, 16.07 GAL/SK
	LEAD CEMENT	1/4/2015	23:04:39	12.7 PPG	8 BPM	860 PSI	124 BBLS	365 SKS, 12.7 PPG, 1.91 FT3/SK, 8.23 GAL/SK
	TAIL CEMENT	1/4/2015	23:19:49	13.5 PPG	8 BPM	918 PSI	300 BBLS	965 SKS, 13.5 PPG, 1.75 FT3/SK, 8.23 GAL/SK

SHUTDOWN	1/4/2015	23:25:00						POOR CEMENT DELIVERY
SHUTDOWN	1/5/2015	00:00:50						HAD PARTIAL RETURNS THROUGH OUT THE CEMENT JOB
DROP TOP PLUG	1/5/2015	00:05:15						PLUG DROP VERIFIED BY THE COMPANY-MAN AND DRILLER
DISPLACEMENT	1/5/2015	00:06:13	8.4 PPG	10 BPM	1800 PSI	186 BBLS		KCL + 3-LBS BE-G, 1-GAL MMCR, LOST RETURNS AT THE BEGINING OF DISPLACEMENT AND NEVER RECOVERED THEM
SLOW RATE	1/5/2015	00:25:03	8.4 PPG	4 BPM	2261 PSI	10 BBLS		
BUMP PLUG	1/5/2015	00:28:15			3057 PSI	TOTAL DISP. 196 BBLS		DID NOT HAVE RETURNS THROUGH OUT THE ENTIRE DISPLACEMENT
CHECK FLOATS	1/5/2015	00:33:36						FLOATS HELD WITH 2.5 BBLS FLOW BACK
END JOB	1/5/2015	00:35:48						
RIG DOWN SAFETY MEETING	1/5/2015	00:45:00						
RIG DOWN	1/5/2015	01:00:00						BLOW DOWN SILOS, WASH UP AND BLOW DOWN CEMENT PUMP
RIG DOWN COMPLETE	1/5/2015	02:30:00						
DEPART LOCATION SAFETY MEETING	1/5/2015	02:45:00						NO INJURIES TO REPORT AFTER THE JOB
CREW LEAVE LOCATION	1/5/2015	03:00:00						
THANK YOU	1/5/2015	03:01:00						THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

# WPX ENERGY RGU 333-26-198 PRODUCTION



DH Density (ppg) Comb Pump Rate (bbl/min) DS Pump Press (psi) Comb Pump Total (bbl)

- |   |   |  |   |             |
|---|---|--|---|-------------|
| • CALL OUT <span style="color: green;">n/a;n/a;n/a;n/a</span>                   | • RIG UP SAFETY MEETING <span style="color: blue;">n/a;n/a;n/a;n/a</span> | • TEST LINES <span style="color: red;">8.51;0;4990;2.1</span>            | • SHUTDOWN <span style="color: blue;">13.02;8.3;850;590.1</span>    | 21 BUMP PLI |
| • DEPART YARD SAFETY MEETING <span style="color: green;">n/a;n/a;n/a;n/a</span> | • RIG UP <span style="color: blue;">n/a;n/a;n/a;n/a</span>                | • WATER SPACER <span style="color: red;">8.41;3.5;50;2.3</span>          | • SHUTDOWN <span style="color: blue;">9.95;0.9;6;853.9</span>       | 22 CHECK FL |
| • CREW LEAVE THE YARD <span style="color: green;">n/a;n/a;n/a;n/a</span>        | • START JOB <span style="color: red;">8.33;0;-10;0</span>                 | • SCAVENGER CEMENT <span style="color: blue;">10.67;4.1;817;103.6</span> | • DROPTOP PLUG <span style="color: red;">8.39;0;239;872.9</span>    | 23 END JOB  |
| • ARRIVE ON LOCATION <span style="color: green;">n/a;n/a;n/a;n/a</span>         | • FILL LINES <span style="color: blue;">8.29;2;112;0.2</span>             | • LEAD CEMENT <span style="color: red;">12.51;8;666;433.4</span>         | • DISPLACEMENT <span style="color: blue;">8.35;9.4;406;875.9</span> | 24 RIG DOWI |
| • STAGE TRUCKS <span style="color: green;">n/a;n/a;n/a;n/a</span>               | • STALL OUT <span style="color: red;">8.42;0;1278;2.1</span>              | • TAIL CEMENT <span style="color: blue;">13.53;8.1;949;554.1</span>      | 20 SLOW RATE <span style="color: red;">8.41;4.3;2186;1060.1</span>  | 25 RIG DOWI |

▼ HALLIBURTON | iCem® Service

Created: 2015-01-04 21:52:00, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 1/4/2015 9:52:31 PM

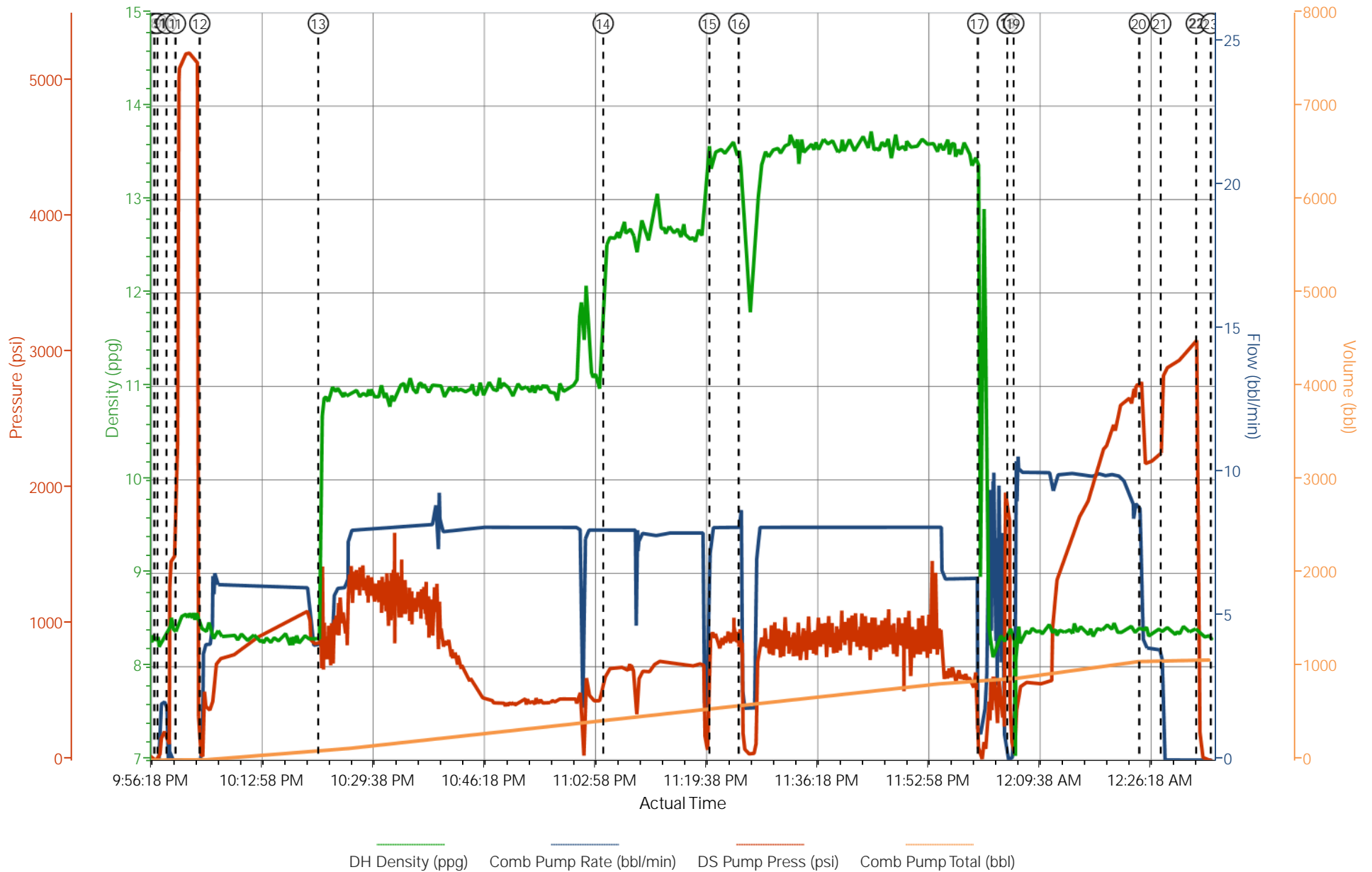
Well : RGU 333-26-198

Representative: RICK MORTIMER

Sales Order # : 901980714

ELITE #4: J. CASTILLO / PAUL SALAZAR

# WPX ENERGY RGU 333-26-198 PRODUCTION



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: Chuck Ross

Lease RGU

Well # 333-26-198

Date: 1/4/2015

Date Rec.: 1/4/2015

S.O.# 901980714

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>65</b> Deg
Total Dissolved Solids		<b>950</b> Mg / L

Respectfully: JAVIER CASTILLO

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its



<b>Sales Order #:</b> 0901980714	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/5/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> RICK MORTIMER		<b>API / UWI: (leave blank if unknown)</b> 05-103-11988-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080129296
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> RIO BLANCO

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

### CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	1/5/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB85312
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK MORTIMER
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
---------------------------

<b>Sales Order #:</b> 0901980714	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/5/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> RICK MORTIMER		<b>API / UWI: (leave blank if unknown)</b> 05-103-11988-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080129296
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> RIO BLANCO

*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b> The date the survey was conducted	1/5/2015

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	11
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	3
<b>Customer Non-Productive Rig Time (hrs)</b> Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	5
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	1
<b>Reason For Unplanned Shutdown</b>	POOR PRODUCT DELIVERY

<b>Sales Order #:</b> 0901980714	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/5/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> RICK MORTIMER		<b>API / UWI: (leave blank if unknown)</b> 05-103-11988-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080129296
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> RIO BLANCO

Reason For Unplanned Shutdowns (after Starting To Pump)	
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	90
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	90
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0